

**THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE  
PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:**

- 5 1. A bulk bag with integral pallets, comprising:  
a flexible bag body having a bottom and sidewalls;  
at least two elongate pallet members having axially  
extending openings adapted to receive fork tines from a fork  
lift, each of the at least two elongate pallet members having  
10 at least one underlying wear pad; and  
means for securing each of the at least two elongate  
pallet members to the bottom of the bag body with the least  
one underlying wear pad exposed.
- 15 2. The bulk bag with integral pallets as defined in Claim 1,  
wherein each of the at least two elongate pallet member has a  
first end and a second end, a single underlying wear pad  
extending between the first end and the second end.
- 20 3. The bulk bag with integral pallets as defined in Claim 2,  
wherein one of the single wear pad or the elongate pallet  
member having transverse openings therethrough adapted to  
accommodate straps.
- 25 4. The bulk bag with integral pallets as defined in Claim 1,  
wherein each of the at least two elongate pallet members has  
a first end, a second end, and at least two underlying wear  
pads including a first wear pad adjacent to the first end and  
a second wear pad adjacent to the second end.
- 30 5. The bulk bag with integral pallets as defined in Claim 4,  
wherein a third wear pad is positioned intermediate the first  
wear pad and the second wear pad.
- 35 6. The bulk bag with integral pallets as defined in Claim 1,

wherein the at least one wear pad is removable from each of the at least two elongate pallet members for replacement.

5 7. The bulk bag with integral pallets as defined in Claim 1, wherein each of the at least two elongate pallet members has a textured top gripping surface adapted to frictionally engage the bottom of the bulk bag.

10 8. The bulk bag with integral pallets as defined in Claim 1, wherein the gripping surface is textured by a plurality of ribs.

15 9. The bulk bag with integral pallets as defined in Claim 8, wherein the ribs are generally parallel and extend transversely across each of the elongate pallet members.

10. The bulk bag with integral pallets as defined in Claim 1, wherein each of the at least two pallet members are made from polymer plastic.

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11. The bulk bag with integral pallets as defined in Claim 10, wherein the at least one wear pad is integrally moulded as part of each of the at least two polymer plastic pallet members.

25 12. The bulk bag with integral pallets as defined in Claim 10, wherein each of the at least two polymer plastic pallets members is fabricated in a generally tubular configuration with voids, thereby reducing their weight.

30 13. The bulk bag with integral pallets as defined in Claim 12, wherein the voids include perforations.

14. The bulk bag with integral pallets as defined in Claim

12, wherein the voids include cut outs.

15. The bulk bag with integral pallets as defined in Claim 1, wherein the means for securing each of the at least two  
5 elongate pallet members to the bottom of the bag body includes one of straps, laces, or elasticized sleeves.

16. The bulk bag with integral pallets as defined in Claim 1,  
10 wherein the means for securing each of the at least two elongate pallet members to the bottom of the bag body is adhesive.

17. The bulk bag with integral pallets as defined in Claim  
15 1, wherein the axially extending openings are fluted, thereby providing a guide for the entry of fork tines from the fork lift.

18. The bulk bag with integral pallets as defined in Claim  
20 1, wherein each of the at least two elongate pallet members has at least one wing extending laterally from one side.

19. The bulk bag with integral pallets as defined in Claim 1,  
wherein at least one of the at least two elongate pallet  
25 members has an electronic identification carrier adapted to be identify said elongate pallet member and distinguish it from other pallet members upon electronic interrogation.

20. The bulk bag with integral pallets as defined in Claim 19  
30 wherein the electronic identification carrier is a microchip capable of encoding data regarding at least one of the contents, weight, or shipping destination of the bulk bag.

21. A bulk bag with integral pallets, comprising:

a flexible bag body having a bottom and sidewalls;

at least two elongate pallet members having axially  
5 extending openings adapted to receive fork tines from a fork  
lift;

means for securing each of the at least two elongate  
pallet members to the bottom of the bag body;

each of the at least two elongate pallet members has a  
10 textured top gripping surface adapted to frictionally engage  
the bottom of the bulk bag, the gripping surface being  
textured by a plurality of ribs which are generally parallel  
and extend transversely across each of the elongate pallet  
members.

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22. A bulk bag with integral pallets, comprising:

a flexible bag body having a bottom and sidewalls;

at least two elongate pallet members having axially  
extending openings adapted to receive fork tines from a fork  
5 lift;

means for securing each of the at least two elongate  
pallet members to the bottom of the bag body;

each of the at least two elongate pallet members having  
a plurality of non-functional voids adapted to reduce their  
10 weight.

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23. A bulk bag with integral pallets, comprising:

a flexible bag body having a bottom and sidewalls;

at least two elongate pallet members having axially  
extending openings adapted to receive fork tines from a fork  
5 lift;

means for securing each of the at least two elongate  
pallet members to the bottom of the bag body;

the axially extending openings being fluted, thereby  
providing a guide for the entry of fork tines.

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24. A bulk bag with integral pallets, comprising:

a flexible bag body having a bottom and sidewalls;

5 at least two elongate pallet members having axially  
extending openings adapted to receive fork tines from a fork  
lift;

means for securing each of the at least two elongate  
pallet members to the bottom of the bag body;

10 each of the at least two elongate pallet members has a  
wing extending laterally from at least one side, such that  
the wing supports the bottom of the bulk bag to limit bottom  
sagging.

25. A bulk bag with integral pallets, comprising:

a flexible bag body having a bottom and sidewalls;

at least two elongate pallet members having axially  
extending openings adapted to receive fork tines from a fork  
5 lift;

means for securing each of the at least two elongate  
pallet members to the bottom of the bag body;

an electronic identification carrier being mounted on  
one of the at least two elongate pallet members, the  
10 electronic identification carrier being adapted to identify  
said elongate pallet member and distinguish it from other  
pallet members upon electronic interrogation, and upon  
electronic interrogation is capable of providing data  
regarding at least one of the contents, weight, or shipping  
15 destination of the bulk bag.

26. The bulk bag with integral pallets as defined in Claim  
25, wherein the electronic identification carrier has global  
positioning system capabilities adapted to facilitate

- - - - - 20 - location - with - - - - a - global positioning system. - - - -



27. A bulk bag with integral pallets, comprising:  
a flexible bag body having a bottom and sidewalls;  
two polymer plastic elongate pallet members having  
5 axially extending openings adapted to receive fork tines from  
a fork lift, each of the two elongate pallet members having a  
first end, a second end, and at least two underlying wear  
pads including a first wear pad adjacent the first end and a  
second wear pad adjacent the second end, the at least two  
10 elongate pallets members being fabricated in a generally  
tubular configuration with weight reducing voids; and  
the two elongate pallet members being secured to the  
bottom of the bag body by one of straps, laces, or  
elasticized sleeves with the least two underlying wear pads  
15 exposed, the straps, laces or elasticized sleeves being  
positioned between and being protected from wear by the at  
least two underlying wear pads which provide an underlying  
wear surface.

20 28. The bulk bag with integral pallets as defined in Claim  
27, wherein a third wear pad is positioned intermediate the  
first wear pad and the second wear pad.

25 29. The bulk bag with integral pallets as defined in Claim  
27, wherein each of the at least two wear pads is removable  
from each of the two elongate pallet members for replacement.

30 30. The bulk bag with integral pallets as defined in Claim  
27, wherein the at least two wear pads are integrally moulded  
as part of each of the at least two polymer plastic pallet  
members.

31. The bulk bag with integral pallets as defined in Claim  
27, wherein the weight reducing voids include perforations.

32. The bulk bag with integral pallets as defined in Claim 27, wherein the axially extending openings are fluted, thereby providing a guide for the entry of fork tines from the fork lift.

33. The bulk bag with integral pallets as defined in Claim 27, wherein each of the elongate pallet members has a textured top gripping surface with ribs that are generally parallel and extend transversely across the elongate pallet members, the ribs being adapted to frictionally engage the bottom of the bulk bag.

34. The bulk bag with integral pallets as defined in Claim 27, wherein each of the elongate pallet members has at least one wing extending laterally from one side.

35. The bulk bag with integral pallets as defined in Claim 27, wherein at least one of the two elongate pallet members has an electronic identification carrier adapted to be identify said elongate pallet member and distinguish it from other pallet members upon electronic interrogation, the electronic identification carrier including a microchip capable of encoding data regarding at least one of the contents, weight, or shipping destination of the bulk bag.